KENWOOD

QUARTZ SYNTHESIZER AM/FM STEREO TUNER

KT-2010/KT-2010L

INSTRUCTION MANUAL

KENWOOD CORPORATION

B50-9593-00 (SI) (E, T, U, UE) (G)
89/12 11 10 9 8 7 6 5 4 3 2

Introduction

Your choice of this product indicates that you are a devotee to excellence in sound reproduction.
We appreciate your patronage and take pride in the long tradition of quality components, that our company represents.
So that you can get the most out of your unit, we suggest that you take the time to read through this manual before you hook up and operate your system. This will acquaint you with operating features, and system-connection considerations, so that your listening pleasure will be enhanced right from the start. You will notice that in all aspects of planning, engineering, styling, operating convenience and adaptability, we have sought to anticipate your needs and desires.
Keep this manual handy for future reference.

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.
Model _____ Serial Number_____

Unpacking

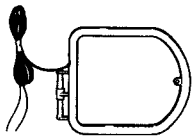
Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.
Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.
We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

Note to CATV system installer:

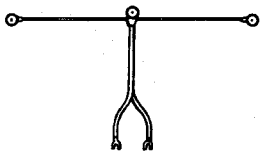
This reminder is provided to call to the CATV system installer's attention to Article 820-22 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Accessories

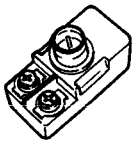
- AM loop antenna ..... 1 (The shape of the loop antenna provided may differ depending on the area.)



- FM indoor antenna ... 1



- antenna adaptor (KT-2010L only)



- antenna holder 1

- audio cord 1

Contents

Caution: Read the following pages marked in ⚠ carefully to keep your safety.

Introduction 2
⚠ Before applying power 3
⚠ Safety precautions 3
⚠ Important safeguards 4
System connections 5
Controls and indicators 9
Operating instructions 10
How to adjust the time 10
Listening to radio broadcasts 10
Tuning to a broadcasting station 11
Preset scanning 12
How to preset 13
How to change the station name 14
Using the audio timer 15
Program timer function 15
Sleep timer function 17
In case of difficulty 18
Specifications 19

Before applying power

For the U.S.A. and Canada

Important!

Units shipped to the U.S.A. and Canada are designed for operation on 120 volts AC only.

Safety precaution for a Polarized AC plug

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

For the United Kingdom

Important!

Units shipped to the U.K. are designed for operation on 240 volts AC only.

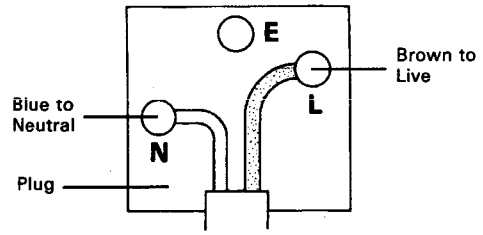
The mains plug must be removed from the wall socket prior to any internal examination.

The wires in this mains lead are coloured in accordance with the following code:

Blue ..... Neutral
Brown ..... Live

The wires in this mains lead must be connected to the terminals in the plug as follows:

Wire colour	**Plug terminal marking**
Blue	N or Black
Brown	L or Red



Notes:

1. If a 13-amp plug is used, this must be fitted with a 5- amp fuse.
2. If a 3-pin plug with earthing contact is used, no wire must be connected to the E terminal.

For Australia and Europe

Important!

Units shipped to Australia are designed for operation on 240 V AC only.

Units shipped to Europe are designed for operation on 220 V AC only.

For other countries

Important!

Units shipped to countries other than the above countries are equipped with an AC voltage selector switch on the rear panel. Refer to the following paragraph for the proper setting of this switch.

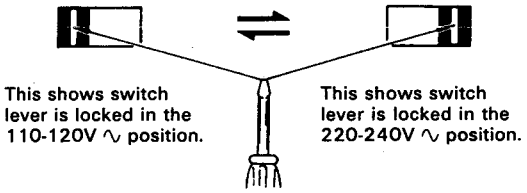
AC voltage selection

This unit operates on 110-120 or 220-240 volts AC. The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following directions.

Note:

Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector switch.

AC110-120V∿◀▶AC220-240V∿ AC110-120V∿◀▶AC220-240V∿



Move switch lever to match your line voltage with a small screwdriver or other pointed tool.

AC voltage selector switch

Safety precautions

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.
	THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

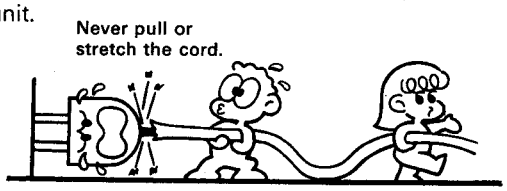
⚠ **Caution: Read this page carefully to keep your safety.**

Important safeguards

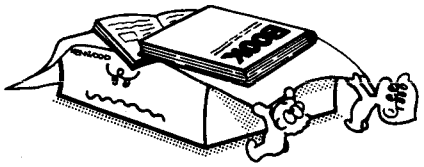
Please read all of the safety and operating instructions before operating this unit. For best results, follow all warnings placed on the unit and adhere to the operating and use instructions. These safety and operating instructions should be retained for future reference.

1. **Power sources** – The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

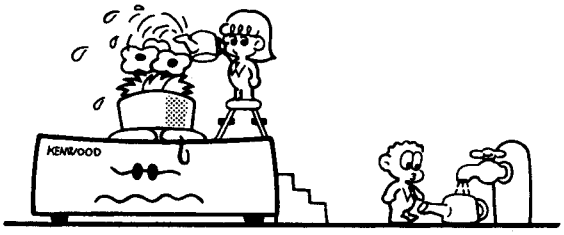
2. **Power-cord protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.



3. **Ventilation** – The unit should be situated so that its location or position does not interfere with its proper ventilation.
To maintain good ventilation, do not put records or a table-cloth on the unit. Place the unit at least 10 cm away from the walls.

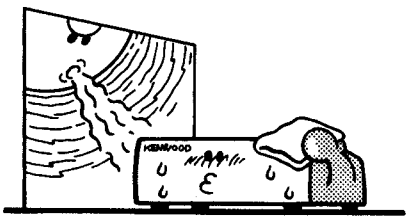


4. **Water and moisture** – The unit should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

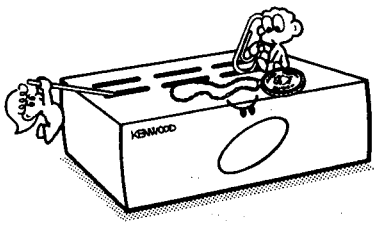


5. **Temperature** – The unit may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F).

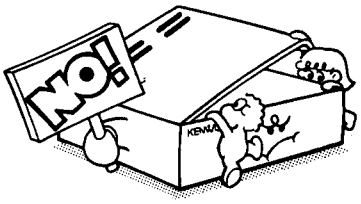
6. **Heat** – The unit should be situated away from heat sources such as radiators, heat registers, stoves, or other units (including amplifiers) that produce heat.



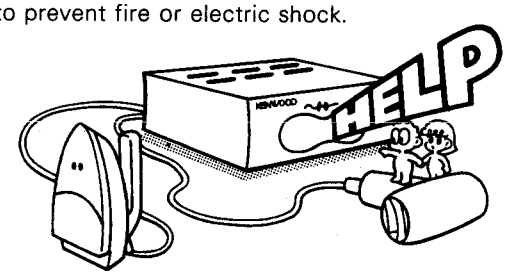
7. **Electric shock** – If a metal object, such as a hair pin or a needle, comes into contact with the inside of this unit, a dangerous electric hock may result. For families with children, never permit children to put anything, especially metal, inside this unit.



8. **Enclosure removal** – Never remove the enclosure. If the internal parts are touched accidentally, a serious electric shock electric shock might occur.



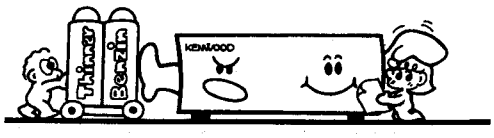
9. **AC outlets** – Do not connect other audio equipment with a power consumption larger than that specified to the AC outlet on the rear panel. Never connect other electrical units, such as an iron or toaster, to it to prevent fire or electric shock.



The maximum capacities indicated for the AC outlets on the rear panel of this unit are as follows.

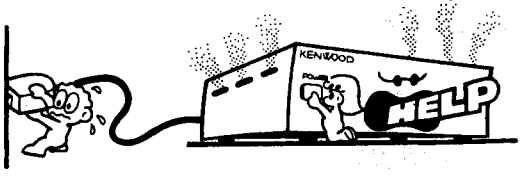
1. SWITCHED outlet	: 100 W (KT-2010) 400 W (KT-2010L)
2. UNSWITCHED outlet	: 700 W (KT-2010 only)

10. **Cleaning** – Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzine, etc. to clean the cabinet. Use a clean dry cloth.



11. **Abnormal smell** – If an abnormal smell or smoke is detected, immediately turn the power OFF and pull out the power cord. Contact your dealer or nearest service station.

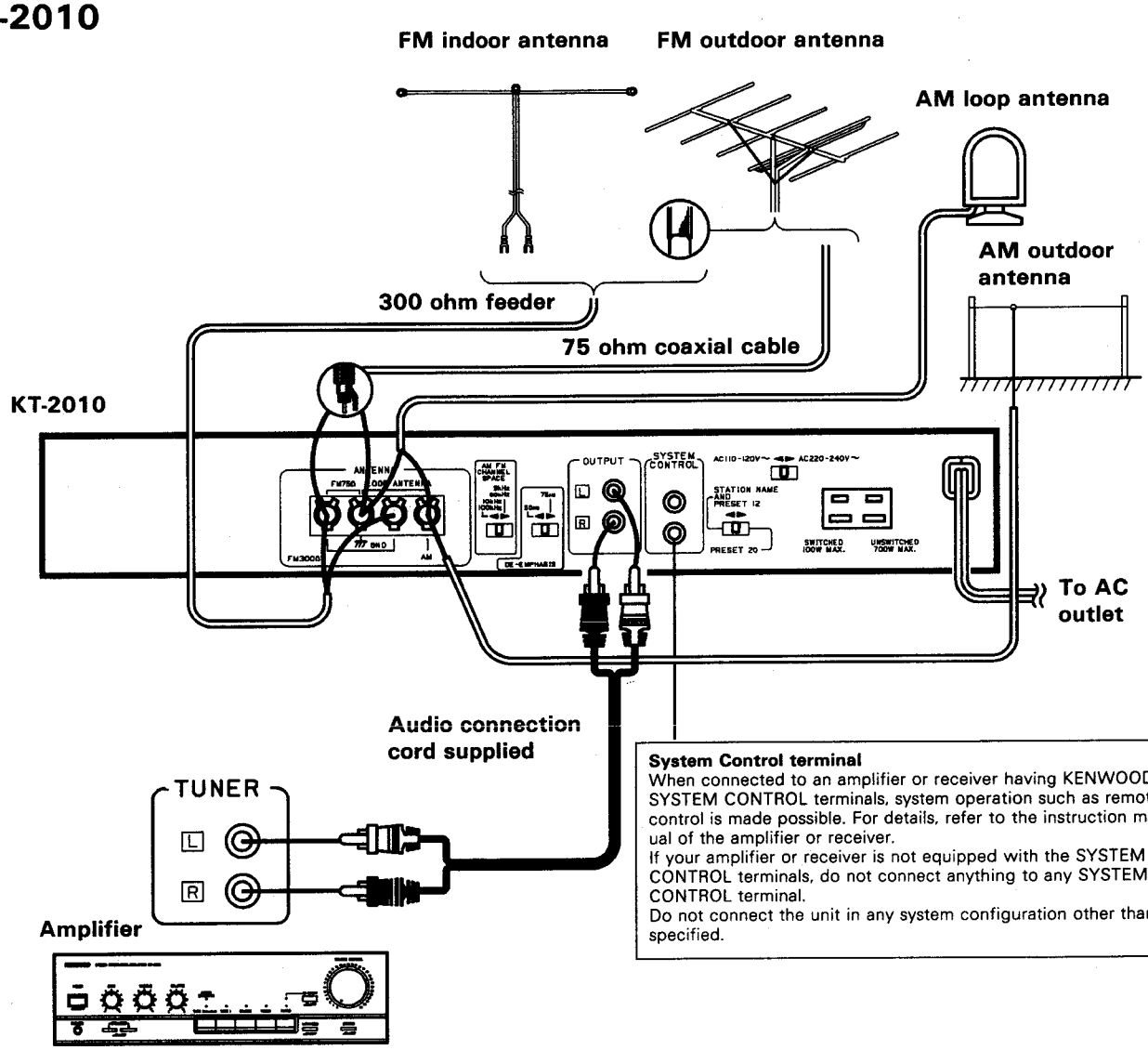
POWER OFF!



System connections

Make connection as shown in the diagram below.
When connecting the related system components, refer also to the instruction manuals of the related components.

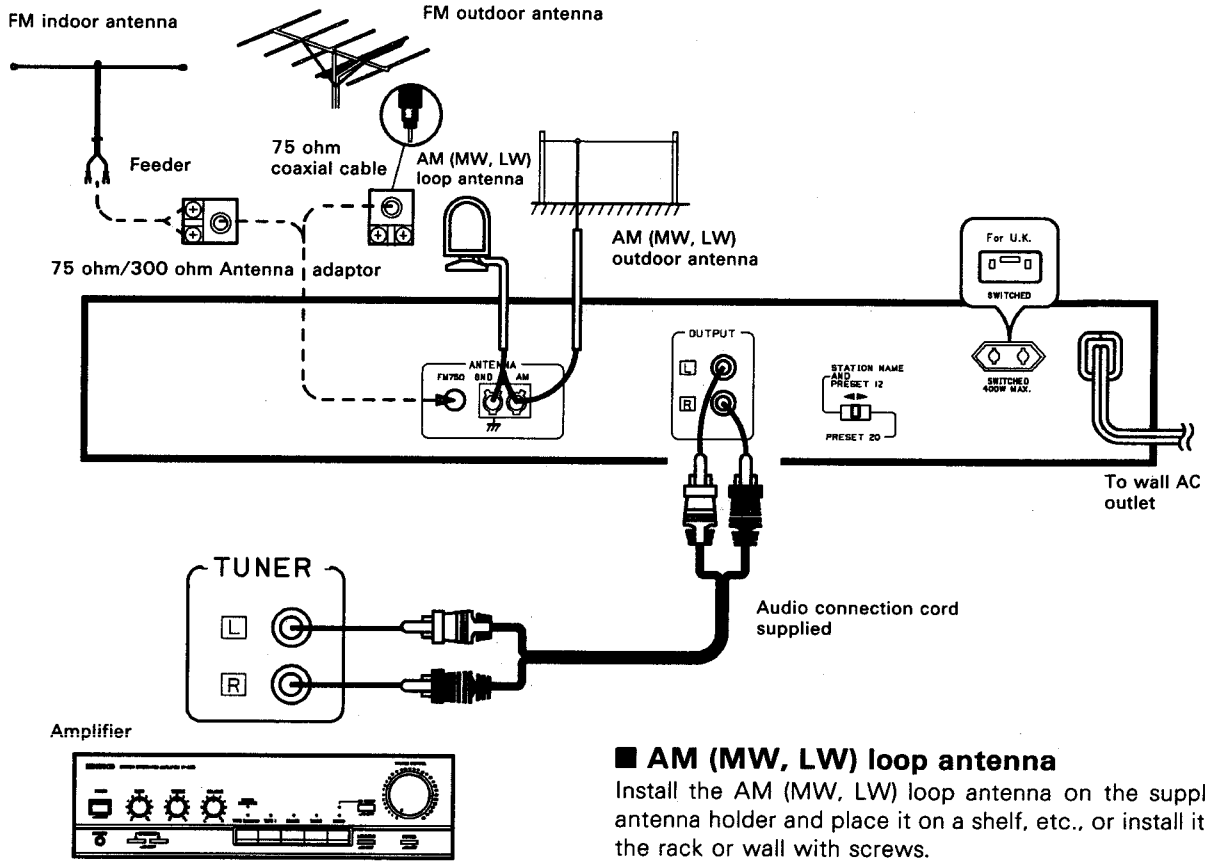
KT-2010



System Control terminal
When connected to an amplifier or receiver having KENWOOD SYSTEM CONTROL terminals, system operation such as remote control is made possible. For details, refer to the instruction manual of the amplifier or receiver.
If your amplifier or receiver is not equipped with the SYSTEM CONTROL terminals, do not connect anything to any SYSTEM CONTROL terminal.
Do not connect the unit in any system configuration other than specified.

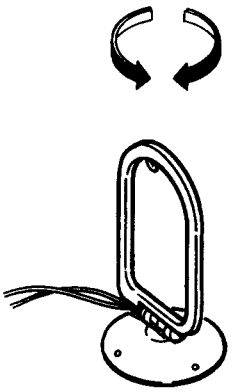
Make connection as shown in the diagram below.
When connecting the related system components, refer also to the instruction manuals of the related components.

KT-2010L (For U.K. and Europe)



■ AM (MW, LW) loop antenna

Install the AM (MW, LW) loop antenna on the supplied antenna holder and place it on a shelf, etc., or install it on the rack or wall with screws.
Rotate the AM (MW, LW) loop antenna to the right or left for best reception.



Keep the speaker leads and AC cords away from the AM loop antenna.

Note:

Do not place the AM (MW, LW) loop antenna on the unit. As this unit employs computing device, placing the AM (MW, LW) loop antenna on the unit may result in noise generation. Place the AM (MW, LW) loop antenna away from the unit.

■ AM (MW, LW) outdoor antenna

In steel buildings or at a great distance from the transmitter, it may be necessary to install an outside longwire antenna.
The end of this wire should be stripped of insulation and connected to the AM terminal. At this time, keep the loop antenna connected.

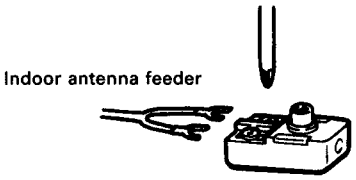
Notes:

1. Connect all cords firmly.
   A loose connection may not produce sound, but noise may occur.
2. When plugging and unplugging a connection cord after all connections are completed, be sure to disconnect the power cord from the AC outlet. If a connection cords is plugged/unplugged with the power cord connected, it may cause a malfunction or damage the equipment.
3. Since this system incorporates microcomputers, correct operations may not be obtained because of external noise or interference, etc. In this case, disconnect the power cord, then plug it in again.
4. Do not connect up a power source which is larger than that indicated on the socket at the rear of the unit.

■ FM indoor antenna

Connect the T-shaped indoor antenna (supplied) to the 300 ohm FM ANTENNA terminal as shown in the system connections diagram. With U.K. and European-destination models, attach the 75 ohm/300 ohm antenna adapter to the indoor antenna and then connect the adapter to the 75 ohm FM ANTENNA terminal. Spread the two arms that form the top of the "T" horizontally and hold them against convenient wall surfaces.
Try several locations for the best results from your favorite stations. Tape the antenna in the place where the best compromise is found between listening results and appearance.

Connection of the 75 ohm/300 ohm antenna adaptor



Loosen the screws with a screwdriver. Insert the antenna terminals under the screw heads and then tighten the screws firmly.

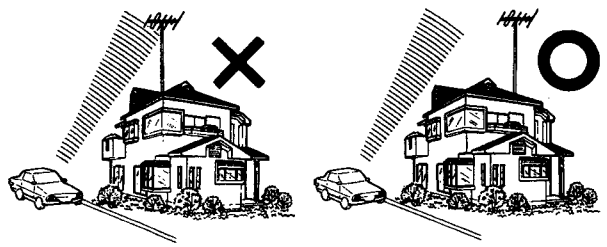
■ FM outdoor antenna (KT-2010L)

Be sure to use an outdoor FM antenna to receive good sound quality FM broadcasts with a minimum of noise. When connecting an outdoor antenna to the antenna terminals of this unit, connect as illustrated. The 75 ohm/300 ohm antenna adaptor is supplied with this unit for U.K. and Europe. Be sure to connect the coaxial cable to the adaptor as instructed in the relevant section.

Note:
An FM outdoor antenna can be a connected to the tuner with a 75 ohm coaxial cable. For proper connection, carefully read the instruction manual for the FM outdoor antenna.

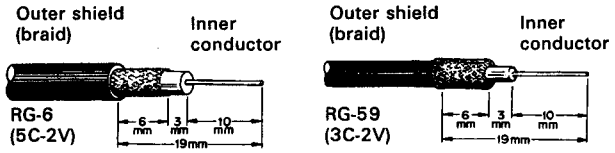
- To minimize auto-ignition noise, locate the antenna as far from heavy traffic as possible.
- Keep the feeder or coaxial cable as short as possible. Do not bundle or roll up excess cable.
- The antenna should be at least two meters (6.6 feet) from reinforced concrete walls, or metal structures.

FM outdoor antenna setting

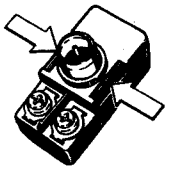


75 ohm/300 ohm antenna adaptor connection

1. Arrange the coaxial cable as illustrated.

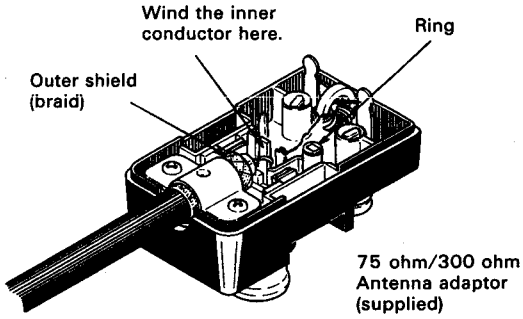


2. Open the 75 ohm/300 ohm antenna adaptor

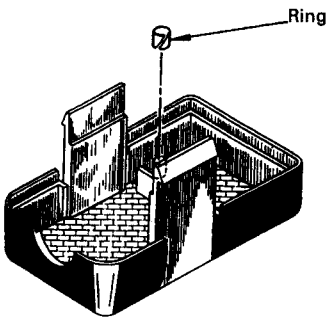


Press the claws in the direction of the arrows with your fingers to release the lock and then pull off the cover.

3. Connect the processed coaxial cable to the 75 ohm/300 ohm antenna adaptor as shown below. In the case of RG-6 (5C – 2V), insert and wind the inner conductor around the slit. In the case of RG-59 (3C – 2V), further insert and wind the inner conductor around the slit. Detach the ring from the antenna adaptor.



4. Put the ring on the pole in the cover.



Note:
To connect the 300 ohm feeder, attach the ring shown in the figure. If the ring is not attached, the sensitivity decreases.

5. Close the 75 ohm/300 ohm antenna adaptor.

■ FM DE-EMPHASIS switch (Except some areas) switch (Except for some areas)

This switch has been set to the correct position for a given market area. However, check to see that this switch is set correctly before operating your unit. An incorrect setting will adversely affect high-frequency performance.

Europe and Oceania ..... 50 μs
Other countries ..... 75 μs

Note:
When changing the setting of the AM/FM CHANNEL SPACE switch, first unplug the AC power cord, then operate the switch, and finally insert the AC power cord again.

■ AC outlets (KT-2010)

The AC outlets on the rear panel can be used to supply power to other components in the system. Never connect equipment whose power consumption exceeds the maximum value shown at each outlet.

SWITCHED: This outlet supplies power when the unit is set to tuner mode or the built-in timer is activated.

UNSWITCHED: This outlet provides power when the unit is plugged into an active AC wall outlet, regardless of the setting of the POWER switch of timer.

AC outlet (KT-2010L)

SWITCHED: This outlet supplies power when the unit is set to tuner mode or the built-in timer is activated.

	KT-2010	KT-2010L
SWITCHED outlet	100 W	400 W
UNSWITCHED outlet	700 W	—

■ Output

Signals from the output jacks are fed to the amplifier. Connection cables should be plugged into the amplifier TUNER or AUX jacks. Shielded cables terminated at both ends with audio cords are supplied with this tuner.

■ Ground

For maximum safety and minimum interference connect the GND terminal to a good earth ground if practicable. A good earth ground is a metal stake driven into moist earth.

POWER key standby

A small amount of current is used to support the memory when POWER is switched OFF. This is known as standby mode.

■ AM/FM CHANNEL SPACE switch (Except some areas)

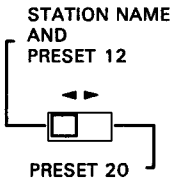
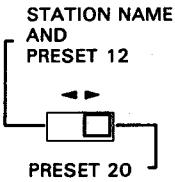
The CHANNEL SPACE switch on the rear panel is set to the correct setting that prevails in the area to which the unit is shipped. However, if the channel space setting is not matched to the area where the unit is to be used;for instance, when you moved from area 1 to area 2 or vice versa, desired reception of AM/FM broadcasts is not expected. In this case, change the CHANNEL SPACE setting in accordance with the area corresponding to the table shown below.

Area	Channel Space Frq.	
1. U.S.A., Canada Hawaii, and Guam	**FM**:	100 kHz
	AM:	10 kHz
2. European countries Far East countries	**FM**:	50 kHz
	AM:	9 kHz

Channel space table

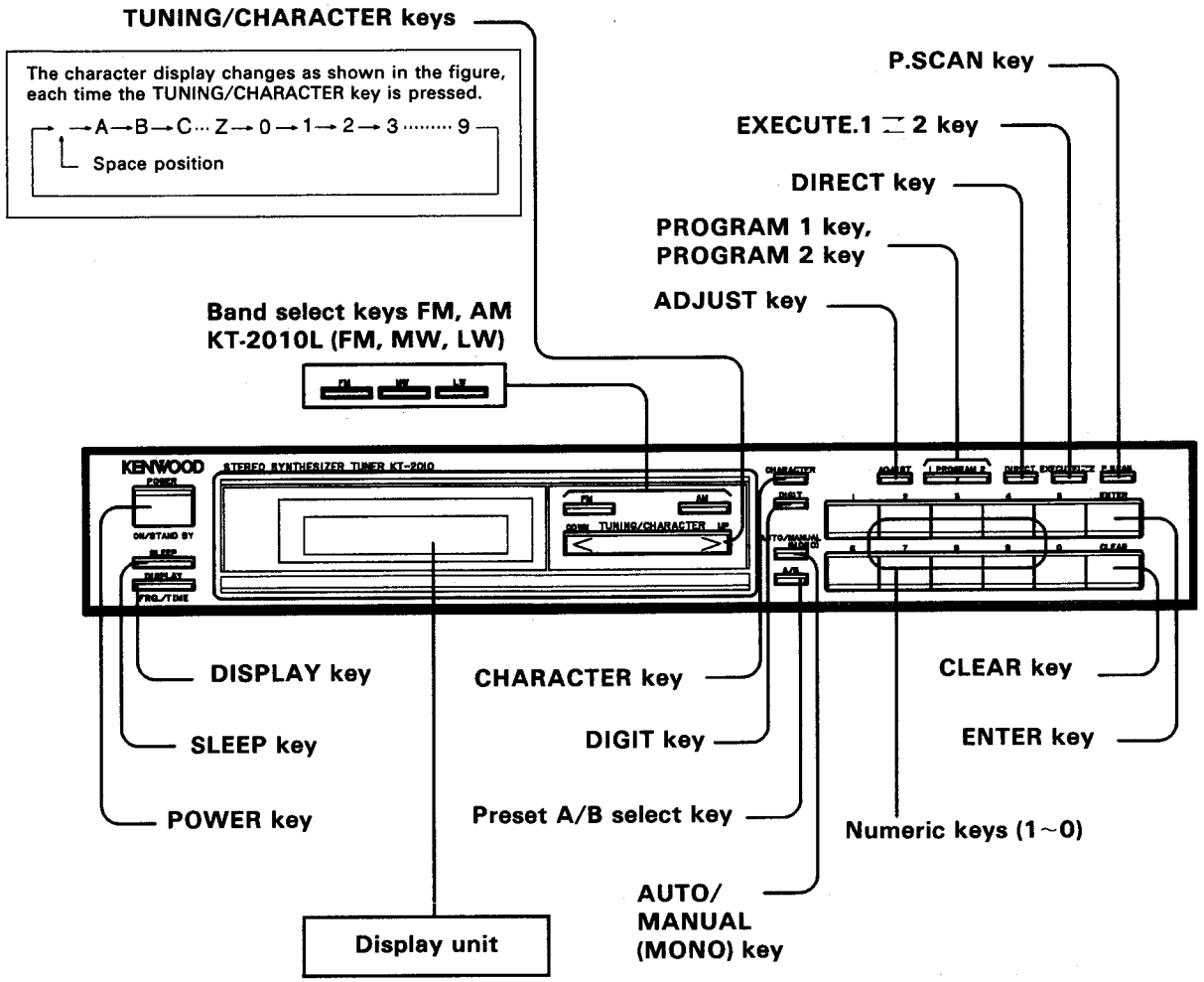
■ Before plugging the power plug into an AC outlet

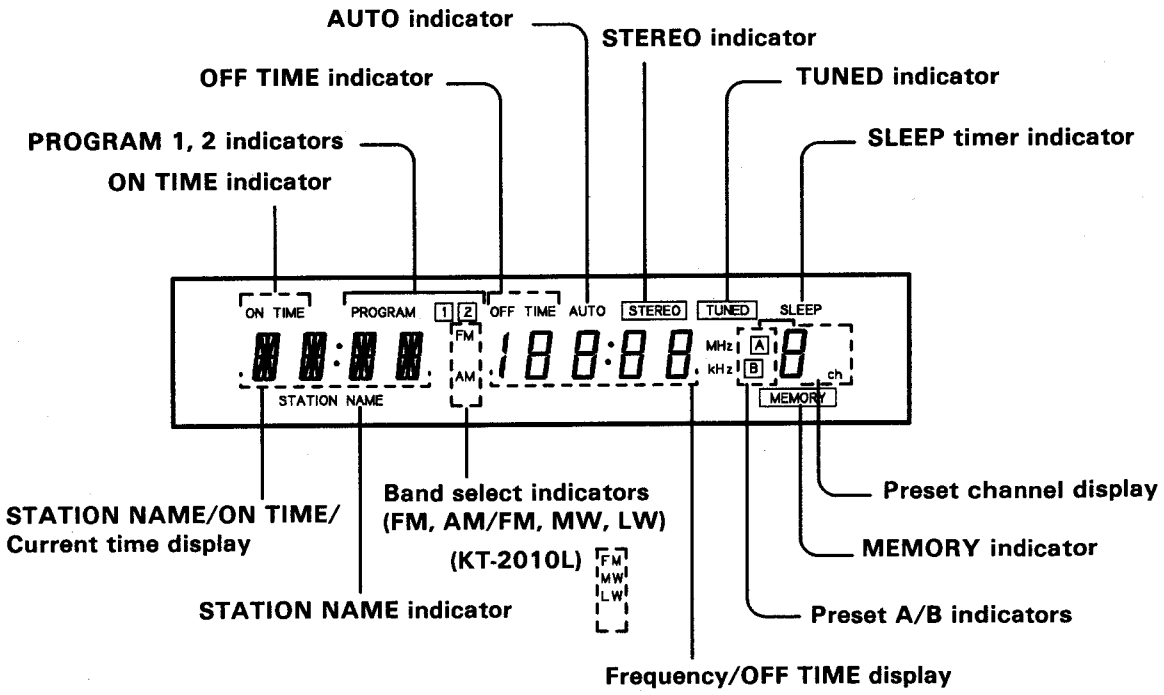
Set the STATION NAME AND PRESET select switch on the rear panel of this unit to either the "12" or the "20" position according to the the number of stations you want to preset. After setting this switch, plug the power cord into the AC outlet. (For presetting operation, refer to page 13, and for tuning to preset stations, refer to page 12.)

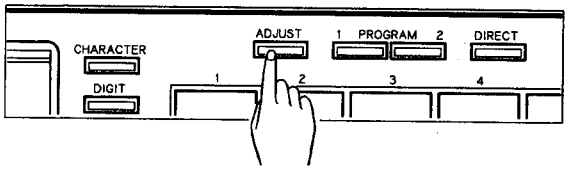
When station name display is required	When station name display is not required
Switch on the rear panel (Set to "12")	(Set to "20")
	
(This switch is set to "12" when the unit is shipped.)	
• A total of 12 FM or AM stations can be preset for channels A and B. • Usable keys are as follows: Channel A: 1 – 6 (A-1 to A-6) Channel B: 1 – 6 (B-1 to B-6)	• A total of 20 FM or AM stations can be preset for channels A and B. • Usable keys are as follows: Channel A: 1 – 0 (A-1 to A-0) Channel B: 1 – 0 (B-1 to B-0)

Note:
When this switch position is changed, the contents of the previously stored memory will be cleared.

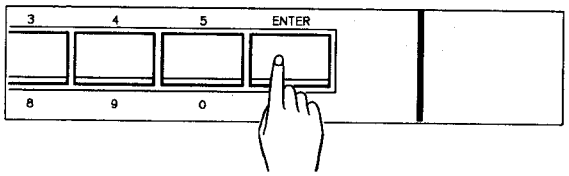
Controls and indicators







Input as follows using numeric keys:
9:05 a.m. "0"→"9"→"0"→"5"
4:30 p.m. "1"→"6"→"3"→"0"



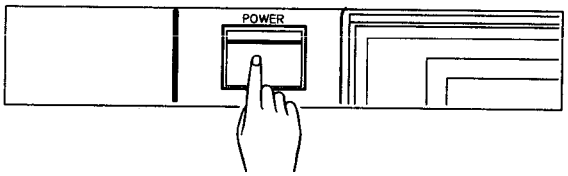
■ How to adjust the time

When the power cord is plugged into an AC outlet, the time indication will blink regardless of the ON/STANDBY setting of the POWER key. Set the current time in the following manner.

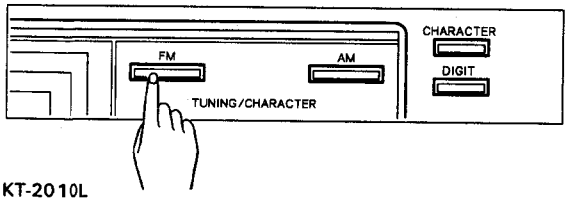
1. Press the ADJUST key.
   - The time indication will start blinking on the display.
2. While watching the display, input the time and minutes using the numeric keys.
   - If the numerals are mistakenly input, press the CLEAR key and then input the numerals again correctly.
3. Press the ENTER key.
   - After inputting the time, press the ENTER key at the moment when the timecast (time signal) is heard to set the time precisely.

Notes:

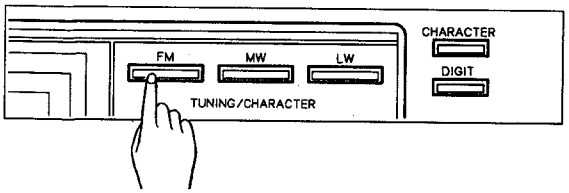
1. When the STATION NAME AND PRESET switch on the rear panel is set to "20", the time indication is displayed at the left side of the display. Adjust the time in the same way as above.
2. After the time adjustment is finished, disconnection of the power cord will cause the time indication to blink again. In this case, you must reset the current time.



KT-2010



KT-2010L



■ Listening to radio broadcasts

1. Press the POWER key to ON.
   Check that the input selector of the amplifier is set to the "Tuner" position.
2. Select the desired broadcast band by pressing the FM, AM/MW or LW band select keys.
3. Referring to "Tuning to a broadcasting station" (on page 11), tune to the desired broadcasting station.
   - Since muting is engaged during tuning operations, no sound will be heard. However, when a broadcasting station is tuned in, sound will be output suddenly. Because of this, be sure to adjust the volume level.
4. After the desired broadcasting station is tuned in, adjust the volume level with the amplifier's volume control.

Time indication and DISPLAY key
Each time the DISPLAY key is pressed, the indication on the display is alternately changed between the time indication and the frequency indication. If any of the tuner operation keys (keys concerning the tuning operation) is pressed when the time indication is displayed, the frequency indication will appear automatically. The time indication will then resume several seconds later.

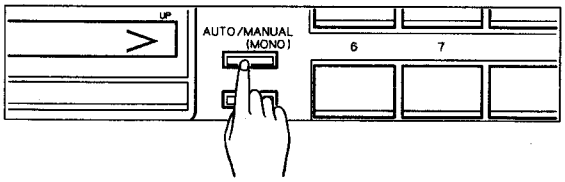
Last channel memory function
Whenever the POWER key is turned ON or the receiving band is switched between FM and AM (FM, MW and LW), or when the input selector of the amplifier is switched to the tuner from another source, the broadcasting station which was last received will be automatically tuned in for both FM and AM (FM, MW and LW).

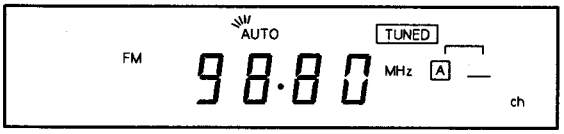
■ Tuning to a broadcasting station

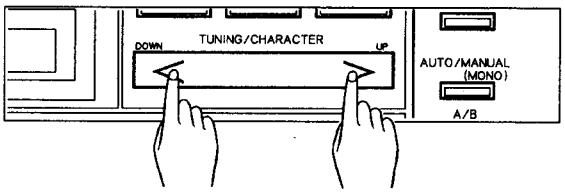
Auto tuning

By pressing the TUNING/CHARACTER key, a broadcasting station will be searched and tuned in automatically. In the FM band, stereo or monaural reception mode will be selected automatically according to the broadcast signal.

1. Press the AUTO/MANUAL (MONO) key so that the AUTO indicator lights up.





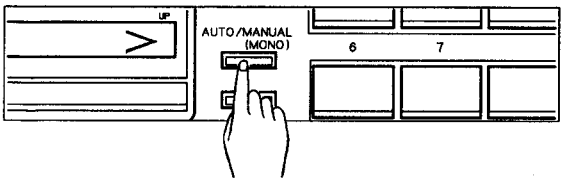


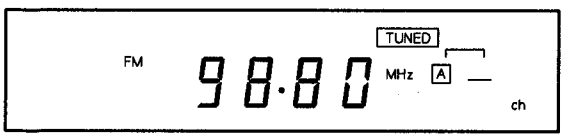
2. Press the TUNING/CHARACTER key to tune to a broadcasting station.
   - Each time the UP side is pressed, the frequency changes to higher frequencies to search for a broadcasting station automatically. When a broadcasting station is found, the frequency stops automatically.
   - Each time the DOWN side is pressed, the frequency changes to lower frequencies.
   - When a broadcasting station is tuned in, the corresponding frequency will appear in the display.
3. Repeat the above procedure until the desired station is received.

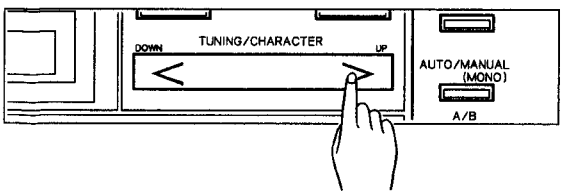
Manual tuning

A broadcasting station which has weak signal strength may not be able to be located with auto tuning operation. In such a case, use the manual tuning method to receive a monaural broadcast.

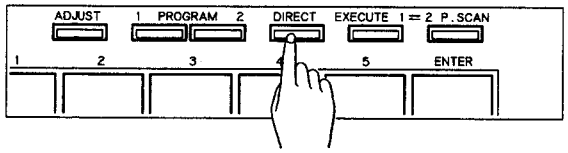
1. Press the AUTO/MANUAL (MONO) key so that the AUTO indicator light goes out.

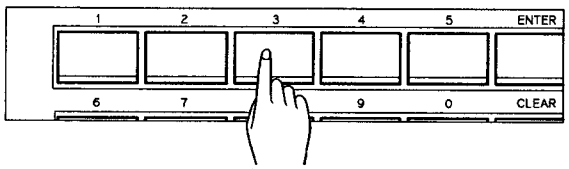






2. Press the TUNING/CHARACTER key to tune to the desired broadcasting station.
   - Each time the UP side is pressed, the frequency changes step by step to higher frequencies. When it is held pressed, the frequency is changed continuously.
   - Each time the DOWN side is pressed, the frequency changes step by step to lower frequencies.
   - When a broadcasting station is tuned in, the corresponding frequency will appear in the display.
3. Repeat the above procedure until the desired station is received.





Direct tuning

Tuning to a broadcasting station can also be performed by inputting the required frequency directly with the numeric keys instead of with the TUNING/CHARACTER key.

1. Press the DIRECT key.
   - The frequency indication will leave the display and input standby mode is entered.

2. Input the frequency of the required station using the numeric keys.
   - When the numerals are input as shown in the examples below, the corresponding station will be tuned in automatically.

Input examples

FM 101.00 MHz ..... 1→0→1→0 (100 kHz space)
1→0→1→0→0 (50 kHz space)
AM 810 kHz ..... 8→1→0
AM 1240 kHz ..... 1→2→4→0

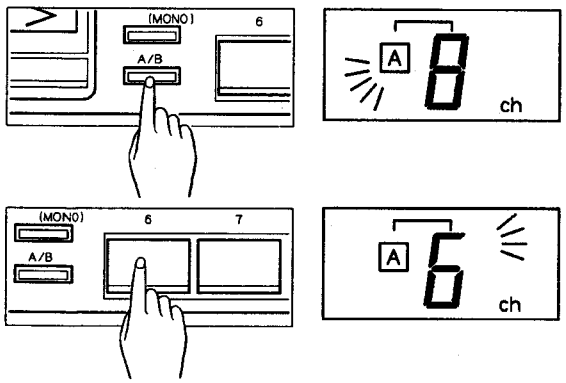
- When numerals are mistakenly input, press the CLEAR key. The input standby mode will be restored. Input the numerals again correctly.

Preset tuning

When the frequencies for various broadcasting stations are preset according to "How to Preset" on page 13, the desired station can be received with a touch of a key.

1. Select the channel group A or B with the A/B select key.
   - When the A/B select key is pressed, the A or B indicator appears in the display.
2. Press the numeric key in which the desired broadcasting station has been preset.
   - The frequency of the desired broadcasting station will appear in the display and the corresponding station will be received.

For example, when tuning to the station preset in channel A-6, the operation and display are as follows:



■ Preset scanning

The stations which are preset in the numeric keys can be received in sequence.

1. Press the P.SCAN key.
2. To stop preset scanning, press the P.SCAN key again.
   - When preset scanning is stopped, the station at the current location will continue to be received.

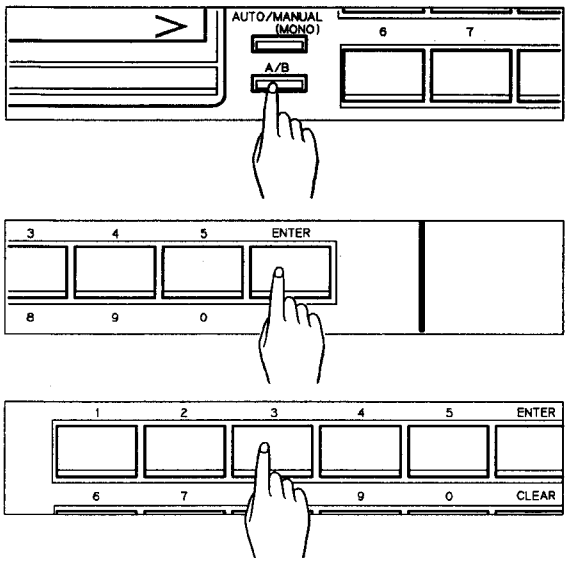
Preset stations will be received sequentially in 5 second intervals in the following order.
(Up to 20 stations when station names are not displayed.)

A-1 → A-2 ····· A-9 → A-0 → B-1 → B-2 ····· B-9 → B-0

(Up to 12 stations when station names are displayed together.)

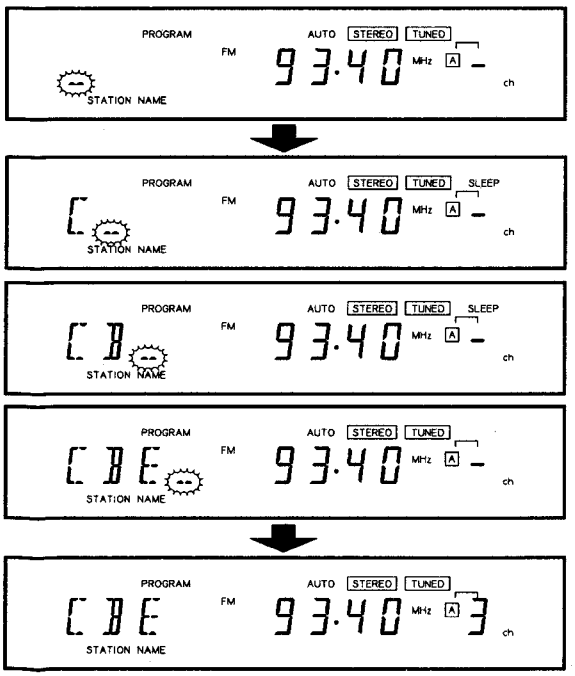
A-1 → A-2 ····· A-6 → B-1 → B-2 ····· B-6

Desired stations must be preset in order to carry out preset tuning. Please verify the position of the STATION NAME AND PRESET switch on the rear panel.



Notes:

1. When a broadcasting frequency is preset into a key in which a frequency has previously been stored, the previously stored frequency will be canceled and only the new frequency will be stored in memory.
2. When the station names are displayed, only the numeric keys 1 – 6 are available for presetting. Presetting into numeric keys 7 – 0 is impossible.
3. In numerals or characters are mistakenly input, press the CLEAR key. The input standby mode will be resumed. Perform the procedure from the beginning.



■ How to preset

When station names are not displayed

Check that the STATION NAME AND PRESET switch on the rear panel is set to the "20" position. If not, unplug the power cord and set the switch to the "20" position.

1. Referring to "Tuning to a Broadcasting Station", tune to the desired station to be preset.
2. Select the channel group A or B with the A/B select key.
3. Press the ENTER key.
   - The MEMORY indicator will light up.
4. Within 5 seconds while the MEMORY indicator is lit, press the numeric key in which the desired station is to be preset.
   - In this case, any numeric key from 1 to 0 can be used.
   - If more than 5 seconds elapse after pressing the ENTER key, perform the procedures from the beginning.
   - When the preset operation has been completed, the MEMORY indicator will go out and the preset number will be displayed.
5. Preset other desired stations in the same manner as above.

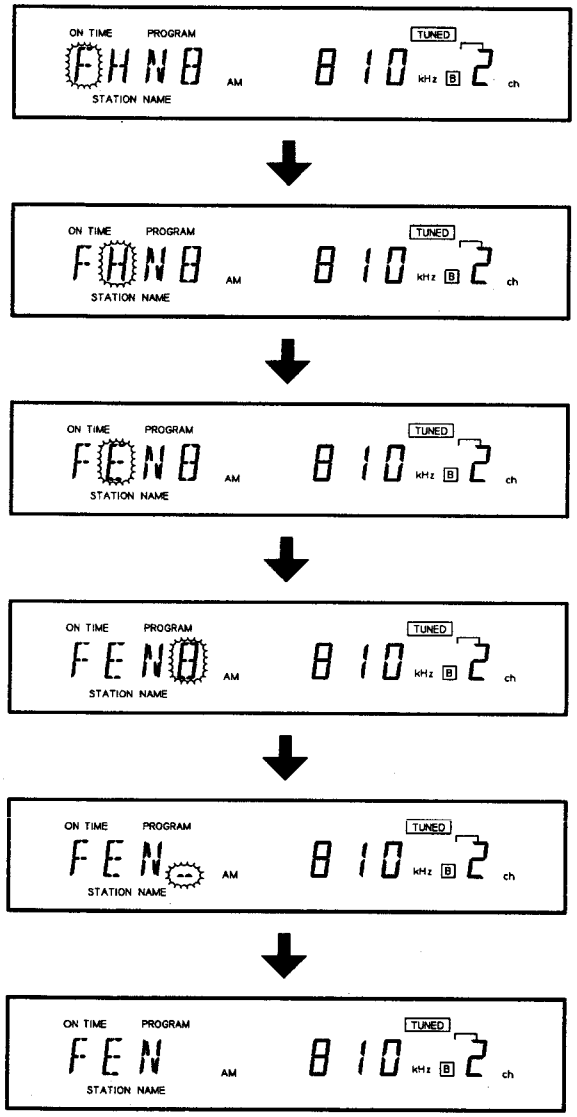
When station names are displayed

Check that the STATION NAME AND PRESET switch on the rear panel is set to the "12" position.

Input example:

An FM station with a frequency of 93.4 MHz is received and preset into channel A-3 with the characters "C B E".

1. Tune to the 93.4 MHz FM station.
2. Press the CHARACTER key.
3. Press the TUNING/CHARACTER key repeatedly until "C" appears, then press the DIGIT key.
4. Press the TUNING/CHARACTER key repeatedly until "B" appears, then press the DIGIT key.
5. Press the TUNING/CHARACTER key repeatedly until "E" appears, then press the DIGIT key.
6. Press the CHARACTER key.
7. At this point, according to "How to Preset" above, select the channel group A with the A/B select key, then press the ENTER key and "3" in order.



■ How to change the station name

Example: The name of the 810 kHz AM station preset in channel B-2 is changed from "FHN8" to "FEN":

1. Tune to the station preset in B-2.
2. Press the CHARACTER key.
3. Press the DIGIT key to shift the cursor to the next column.
4. Press the TUNING/CHARACTER key repeatedly until "E" appears in the display.
5. Press the DIGIT key twice to shift the cursor to the right by two columns.
6. Press the TUNING/CHARACTER key repeatedly until "–" (blank space) appears on the display.
7. Press the CHARACTER key.

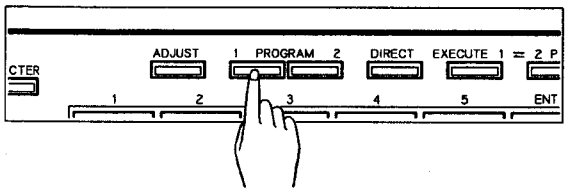
Using the audio timer

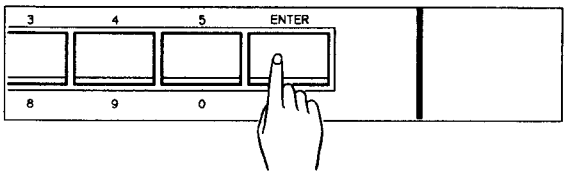
This tuner provides two timer functions: a program timer and a sleep timer.

■ Program timer function

Two different programs [1] and [2] are available, and both the ON time and the OFF time can be set for each program within a 24 hour period. Once the program timer is assigned, it will work every day.

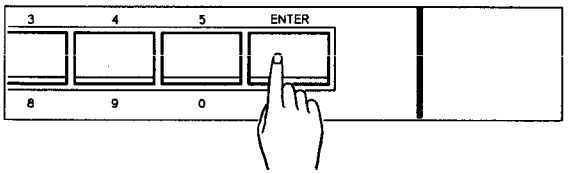
Setting the timer (for Program [1])



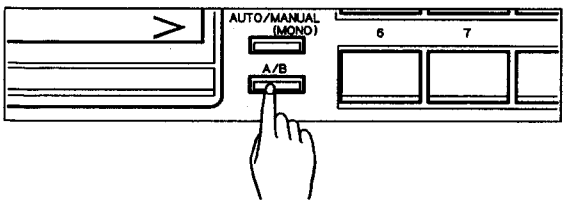


1. Press the PROGRAM [1] key, then, within 5 seconds, press the [ENTER] key.
   - If 5 seconds elapse, the previous condition will resume. In such a case, repeat the procedure from the beginning.

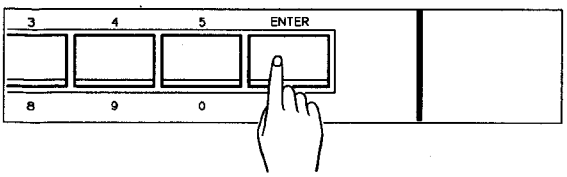
Using the numeric keys, input as follows:
7:30 a.m. "0"→"7"→"3"→"0"
7:30 p.m. "1"→"9"→"3"→"0"



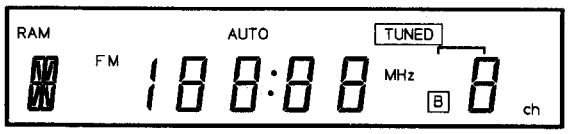
2. Using the numeric keys, input the time at which you want the tuner to turn on.
   - If numerals are mistakenly input, press the [CLEAR] key, and repeat the procedure from the beginning.
3. Press the [ENTER] key. The ON time will be set.
4. Using the numeric keys, input the time at which you want the tuner to turn off.
   - If numerals are mistakenly input, press the [CLEAR] key, and repeat the procedure from the beginning.
5. Press the [ENTER] key. The OFF time will be set.

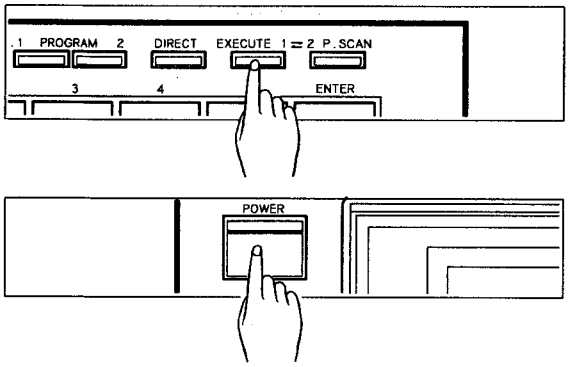


6. Using the [A/B] select key and the numeric keys input the preset channel number of the broadcasting station which you want to receive when the tuner is turned ON.
   - If the A/B select key is pressed mistakenly, press the [CLEAR] key then select the correct channel group with the [A/B] key again.
   - Even when it is not desired to receive a station at the ON time, be sure to set a temporary preset channel.
   - If the station preset setting is not made, the timer's ON/OFF setting is not completed.



7. Press the [ENTER] key. The programming for timer program [1] is now completed.
8. Set the timer program [2] in the same way as above, if required.

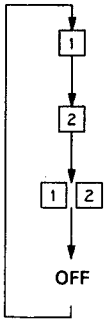




■ Timer reception of a broadcasting station

1. Check that the broadcasting station you want to receive with the timer has been stored in a preset channel.
   - If it is not preset in memory, preset the station according to "How to Preset" (on page 13).
2. Set the timer ON/OFF time. (see page 15).
3. Adjust the volume or tone, etc. of the amplifier or other component.
4. Using the EXECUTE 1 ≂ 2 key, select the program number required.
   - The selected program number indicator will light up.
5. Press the POWER key of the tuner to turn the power OFF.
   - The display will go out except for the program indicator and the current time indication.
   - When the preset ON time is reached, power is supplied to the tuner automatically and the designated preset station will be received.
   - To receive the station continuously, press the EXECUTE 1 ≂ 2 key so that both timer program number indicators A and B go out in the display before the OFF time is reached.
   - When the OFF time is reached, the power is turned OFF automatically. If radio reception is required to be continued, turn the POWER key ON again.

Each time the EXECUTE 1 ≂ 2 key is pressed, the program number indicator will be changed in the following order, and the program corresponding to the selected number will be executed.



To execute program 1 only

To execute program 2 only

To execute both 1 and 2

Neither program is executed

- Once a program has been set, it will be repeated every day unless the contents of the program are changed.
  If the timer program is not required, be sure to press the EXECUTE 1 ≂ 2 key so that both the 1 and 2 indicators go out.

Notes:

1. If both programs 1 and 2 are set, program 2 will be given priority over program 1. Set the ON/OFF times so that the two programs do not overlap.
   When the ON time of program 2 is reached while program 1 is still engaged, the contents of program 2 will be executed. However, when the ON time of program 1 is reached while program 2 is engaged, the contents of program 1 will not be executed.
2. If the EXECUTE 1 ≂ 2 key is pressed or if the power is turned OFF while one of the programs is engaged (between the ON and OFF times), the tuner may not operate correctly.
3. To perform both programs 1 and 2 continuously, be sure to leave the interval between the OFF time of the first program and the ON time of the second program at more than 1 minute.
   Example: When receiving one station for 1 hour starting at 8:00 and receiving the other station for 1 hour starting at 9:00, set the ON time and OFF time of program 1 to 8:00 and 8:59, respectively, and set the ON time of program 2 to 9:00.

■ To check the programmed contents

When the PROGRAM [1] or [2] key is pressed, the contents of the program will be displayed for about 5 seconds, then the previous mode will resume.

■ When program is not required

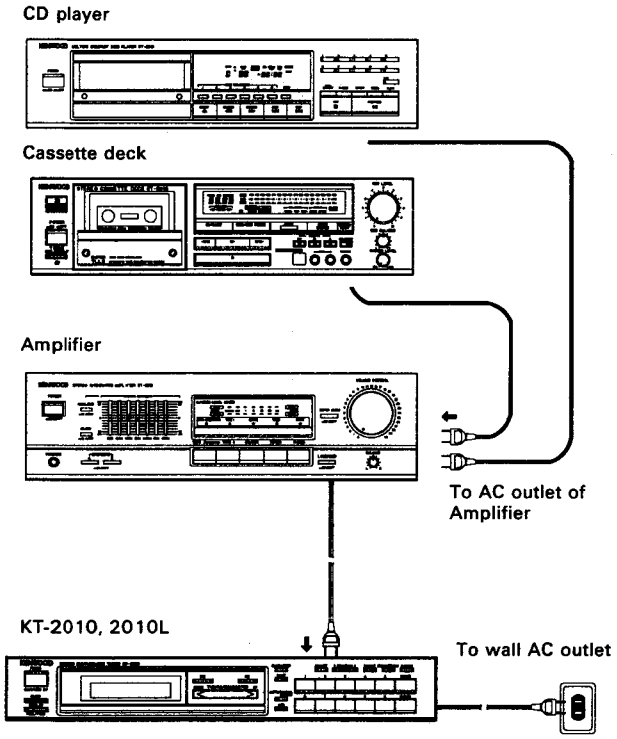
Press the [EXECUTE 1 ⌒ 2] key so that both the program indicators [1] and [2] go out.

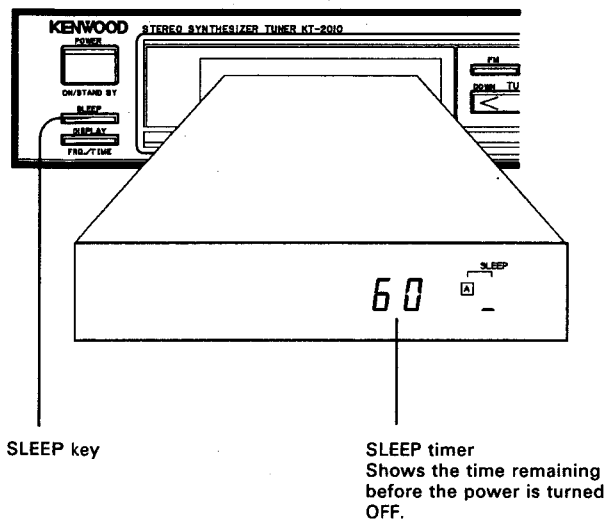
■ Timer play of cassette tape or CD

Using the program timer of this tuner, a cassette deck or CD player can be started at any desired time. For details regarding connection of the AC cord, etc., refer to the connection diagram in the instruction manual of the amplifier.

Note:

When operating the unit other than the CD player using an audio timer, be sure to remove the disc from the CD player.





■ Sleep timer function

With the sleep timer function, when set time has elapsed, the power to the tuner will be turned OFF automatically; convenient when going to sleep. The sleep timer can be set to up to 60 minutes in 10-minute steps.

- Even if the program timer is engaged, the sleep timer function will have priority.
- Each time the key is pressed, the time display will be decreased by 10 minutes from "60". For example, if you want to turn off the power 30 minutes later, press the [SLEEP] key until "30" appears in the display.
- To release the sleep timer function, turn the POWER key OFF, then turn ON again.

Note:

If the time indication is blinking, the sleep timer will not function. Set the current time referring to "How to adjust the time" on page 10.

In case of difficulty

If your unit should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your dealer or service representative.

Symptom	Cause	Remedy
No power when POWER is switched ON.	Power cord is disconnected.	Plug the AC cord into the AC outlet correctly.
Time indication stops and blinks.	1. Power line was interrupted. 2. Power cord was unplugged and plugged in again.	1. Set the current time correctly. 2. Set the current time correctly.
Timer operation does not function.	1. Current time is not set. Power line was interrupted. 2. The ON time and OFF time for the program are not set. 3. Timer program is not set for execution.	1. Set the current time correctly. 2. Set both ON time and OFF time as required. 3. Press the [EXECUTE 1 ~ 2]key according to the required program.
Beat noise occurs.	1. Television set is used at the same time. 2. The provided AM loop antenna is set too close to the unit.	1. Turn the television's power OFF or keep a reasonable distance between the television and this unit. 2. Install the AM loop antenna at the optimum position.
Buzz noise occurs.	Other electrical equipment (such as fluorescent lights or a hair dryer) is used at the same time.	Stop using the equipment generating noise.
Distorted sound.	1. The provided AM loop antenna is installed in an incorrect direction or in the wrong place. 2. Noise is introduced from other electrical equipment. (such as fluorescent lights or an appliance using a motor). 3. Signal strength from the broadcasting station is too weak.	1. Set the antenna as far from the tuner as possible while changing the direction to an optimum position. 2. Stop using the equipment generating noise, or keep it away from the tuner. 3. Install the AM outdoor antenna and connect it to the tuner.
FM/AM (FM/MW/LW) reception is impossible.	1. Antenna is not connected. 2. Tuning band is not set correctly. 3. The required station is not tuned in.	1. Connect the antenna to the tuner correctly. 2. Set the tuning band correctly. 3. Tune to the required station using the TUNING/CHARACTER key.
Reception is impossible when a numeric key (1~0) is pressed after presetting.	1. Frequency of the receivable station is not preset into the numeric key (1~0). 2. The stored contents have been canceled due to longterm interruption.	1. Tune to the frequency of a station which can be received, and preset into any of the numeric keys (1~0). 2. Perform presetting operation again.
Tuned station cannot be preset into one of the numeric keys (7~0)	The STATION NAME AND PRESET switch on the rear panel is set to the "12" position.	Disconnect the power cord, then set the STATION NAME AND PRESET switch to the "20 " position.

Specifications

FM tuner section (IHF)

Tuning frequency range ..... 87.5 MHz – 108 MHz
Usable sensitivity (MONO) ..... 0.95 μV, 10.8 dBf
Total harmonic distortion (at 1 kHz)
MONO: ..... 0.3 %
STEREO: ..... 0.3 %
Signal-to-Noise ratio (at 1kHz, 65 dBf input)
MONO: ..... 76 dB
STEREO: ..... 73 dB
Alternate channel selectivity (±400 kHz) ..... 50 dB
Stereo separation (at 1 kHz) ..... 40 dB
Frequency response 30 Hz – 15 kHz ..... +0.5 dB, −2 dB
Output level/impedance (75 kHz dev.) ..... 0.6 V/3.3 kohms

MW tuner section (KT-2010L)

Tuning frequency range ..... 531 kHz – 1602 kHz
Usable sensitivity ..... 14 μV, 400 μV/m
Signal-to-Noise ratio (30% mod. 1mV input) ..... 50 dB
Total harmonic distortion ..... 0.6 %
Selectivity ..... 25 dB

LW tuner section (KT-2010L)

Tuning frequency range ..... 153 kHz – 281 kHz
Usable sensitivity ..... 17 μV, 800 μV/m
Signal-to-Noise ratio (30% mod. 1mV input) ..... 50 dB
Total harmonic distortion ..... 0.5 %
Selectivity ..... 30 dB

AM Tuner Section (KT-2010)

Tuning frequency range
531 kHz – 1,602 kHz ..... 9 kHz step
530 kHz – 1,610 kHz ..... 10 kHz step
Usable sensitivity ..... 14 μV, 400 μV/m
Signal-to-Noise ratio (30% mod. 1mV input) ..... 50 dB
Total harmonic distortion 0.5%
Image rejection ratio ..... 40 dB
Selectivity ..... 25 dB
Output level/impedance
(30% mod. 1mV input) ..... 0.18 V/3.3 kohms

General

Power consumption ..... 8 W
Dimensions ..... W: 440 mm (17-5/16")
H: 78 mm (3-1/16")
D: 267 mm (10-1/2")
Weight (Net) ..... 3.1 kg (6.8 lb)

Note:
KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Observera:
Apparatens strömförsörjning kopplas från sekundärt. V.g. ge akt på följande.

Apparaten frånkopplas inte helt och hållet från strömnätet medan apparatens nätsladd är ansluten till växelströmsuttaget.

Huom:
Virta yksikköön on kytketty pois sekundaaripuolelta. Huomioi seuraava.

Tämä yksikkö ei ole kokonaan kypketty pois pää virranjakajasta kun pää katkaisin on liitettynä virtatiiriin.

Bemærk:
Strømmen til apparatet afbrydes på den sekundære side. Vear opmærksom på følgende.

Denne enhed er ikke fullstendig koblet fra lysnettet så lenge stikket er tilsluttet stikkontakten.

Anmerkning:
Strømmen til apparatet er slått av på sekundærsiden. Vær oppmerksom på det følgende.

Dette apparatet koples ikke fullstendig fra nettet så lenge støpselet står i en stikkontakt, selv om strømbryteren settes i av-stilling.